ORDER NO. TSD-7406-571

SE-1077

Service Manual

Panasonic
COMPACT STEREO
Panasonic

COMBINATION OF SE-1077 STEREO SYSTEM

CENTER UNIT..... SD-1077
SPEAKER SYSTEM.... SB-1077

MODEL SE-1077

SPECIFICATIONS

AMPLIFIER SECTION

Power Output:	10W—10W (P.M.P.O)
Frequency Response:	60Hz~20kHz (—3dB, 1W)
Tone Control:	+3dB ~-20dB at 10kHz
Input Sensitivity and Impedance:	3mV, 45kΩ (MIC)
Output Sensitivity and Impedance:	300mV, 80kΩ (REC OUT)

FM TUNER SECTION

Frequency Range:	88 ~ 108MHz
Intermediate Frequency:	10.7MHz
Harmonic Distortion:	0.4% (at 1kHz, 60dB, 30%)
Signal to Noise Ratio:	60dB (at 1kHz, 60dB 100%)
Stereo Separation:	32dB (at 1kHz, 60dB 30%)

AM TUNER SECTION

Frequency Range:	525 ~ 1605kHz
Intermediate Frequency:	455kHz
Usable Sensitivity:	250μV/m, 20μV

RECORD PLAYER SECTION

Type:	Auto Return Player(SP-501B)
Turntable:	25cm (10")
Speed:	33-1/3 and 45RPM
Cartridge:	Ceramic (EPC05STAD)
Stylus:	Diamond (EPS36STSD)

TAPE DECK SECTION

Deck System:	Auto Stop Cassette System
Track System:	4-Track 2-Channel
Recording System:	AC Bias 50kHz
Erasing System:	AC Erase
Tape Speed:	1-7/8 i.p.s. (4.75cm/sec.)
Frequency Response:	60Hz ~ 10kHz
Motor:	Mechanical Governor, DC 13V

SPEAKER SYSTEM (SB-1077)

Type:	2-way Air Suspentsion
Woofer:	6-½" (16cm) Cone Type
Tweeter:	2" (5cm) Cone Type
Input Impedance:	8Ω

POWER SUPPLY: AC 100—115V, 115—130V, 200—225V, 225—250V, 50/60Hz

POWER CONSUMPTION: 32W

DIMENSIONS (W x H x D)

Center Unit:	22-1/2"x7-5/16"x14-11/16" (571) (185) (373)mm
Speaker System:	11-5/8"x17-11/16"x5-5/8" (295) (450) (143)mm

WEIGHT

Center Unit:	18 lb. 11 oz. (8.5 kg)
Speaker System:	6 lb. 10 oz. (3 kg) each

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.
2-8, 4-Chome Shiba, Minato-ku, Tokyo 108, Japan

DISASSEMBLY INSTRUCTIONS

■ **To Remove Record Player**

1. Remove turntable.
2. Remove a record player mounting screw No. 1 as shown in Fig.1.
3. Lift player slightly back and slide it toward rear of cabinet.
4. To reassemble, reverse above procedure.

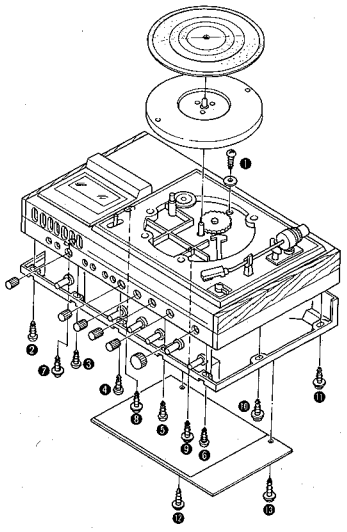


Fig. 1

■ **To Replace Components**

1. Remove record player.
2. Remove two (2) bottom board mounting screws Nos. 12–13, as shown in Fig.1.
3. Unsolder faulty components and replace with new one.

* Most components can be replaced in this manner. However, when it becomes necessary for you to remove, the chassis, follow these instructions,

a) remove six knobs on the front panel.
b) remove ten (10) cabinet mounting screws Nos.2~11, as shown in Fig. 1.
c) remove cabinet from chassis.

4. To reassemble, reverse above procedure.

CAUTION

To Remove Cabinet;

* Lift cabinet in the direction of arrow A, as shown in Fig.2.

To Reassemble cabinet;

* Incline cabinet about 20 degrees. Fit mike jack and headphone jack to their respective holes on the front panel, and push cabinet in the direction of arrow B, as shown in Fig.2.

* Make sure the cabinet does not touch the pinch roller or eject lever on the tape deck.

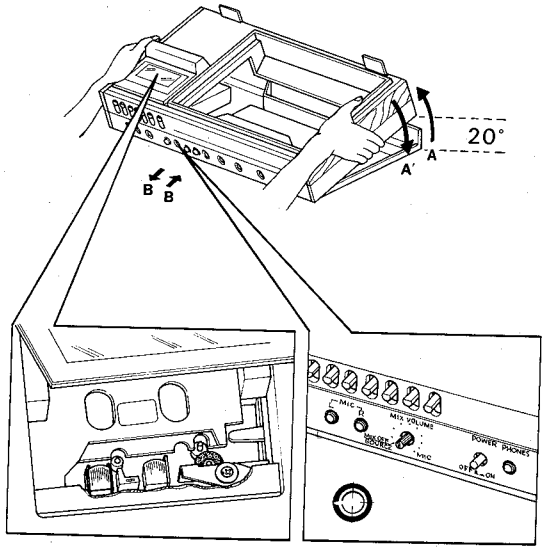


Fig. 2

■ **To Replace Cartridge**

1. To remove cartridge, push it in the direction of arrow A, as shown in Fig.3.
2. To install cartridge, push it in the direction of arrow B, as shown in Fig.3.

* The cartridge should be perpendicular with the head shell (pickup) and it should be installed straight upward, observing that its edge is in line with the head shell.

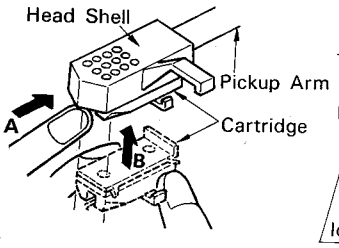


Fig. 3

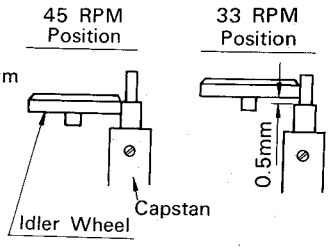


Fig. 4

■ **To Replace Capstan**

* When replacing capstan, carefully set its edge to the idler wheel basing on two positions, as shown in Fig. 4.

■ **To Remove Cassette Tape Deck**

1. Refer to above cabinet removal procedure.
2. Unplug two (2) 6P connector and a 3P plug.
3. Remove five (5) cassette deck mounting screws Nos.1–5, as shown in Fig.5.
4. To reassemble, reverse above procedure.

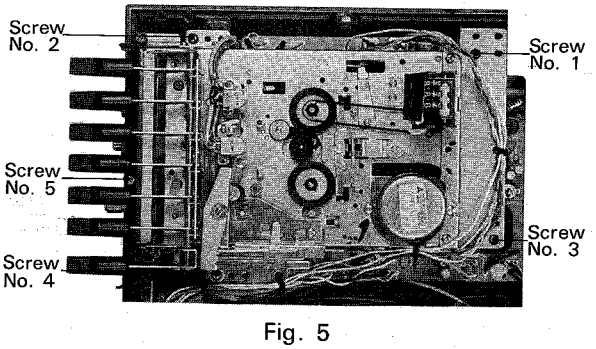
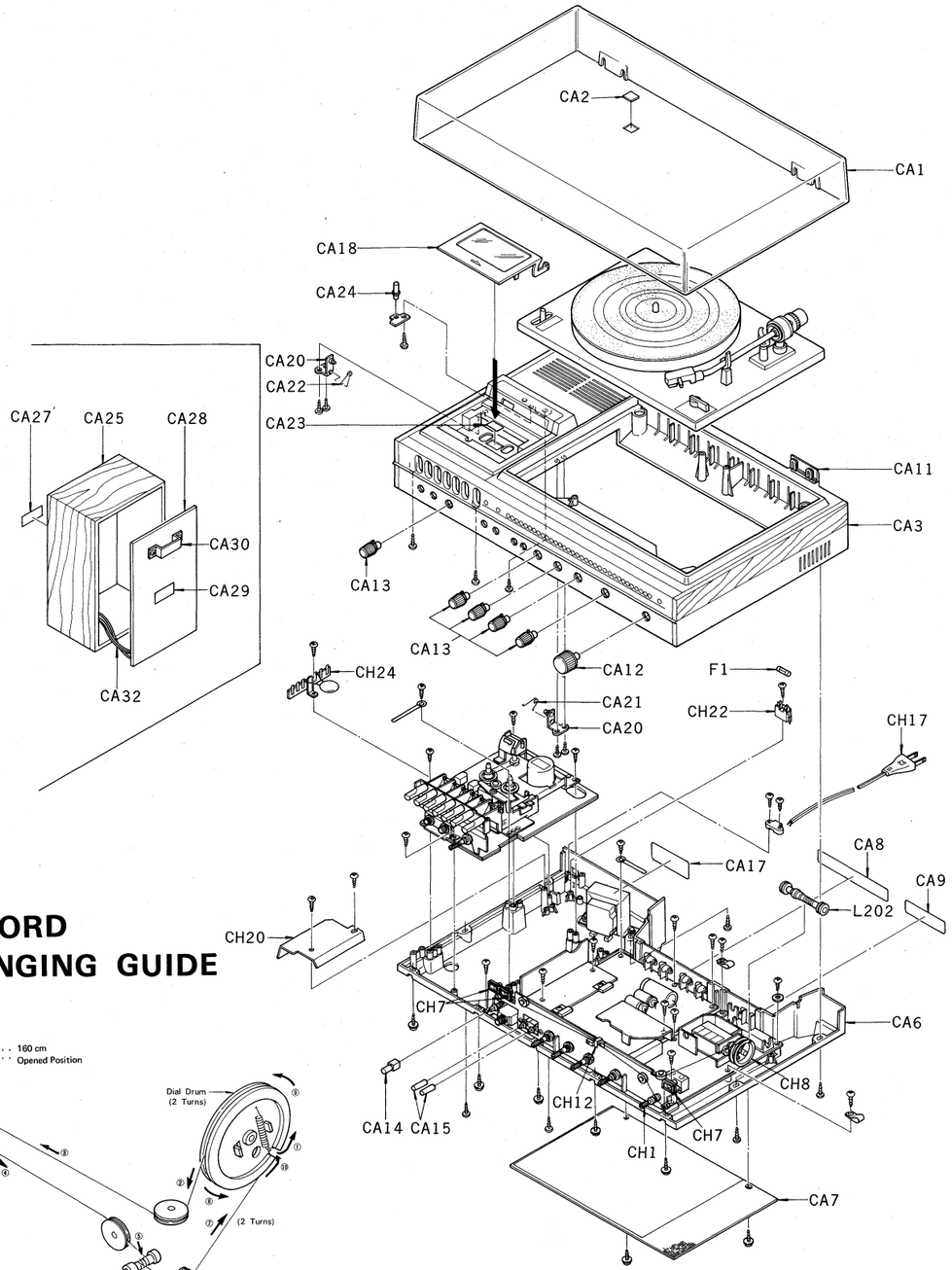


Fig. 5

LOCATION OF CABINET PARTS



DIAL CORD STRINGING GUIDE

* Dial Cord Length ..... 160 cm
* Tuning Capacitor ..... Opened Position

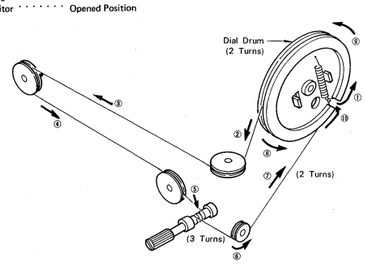


Fig. 6

EXPLODED VIEW OF CASSETTE DECK

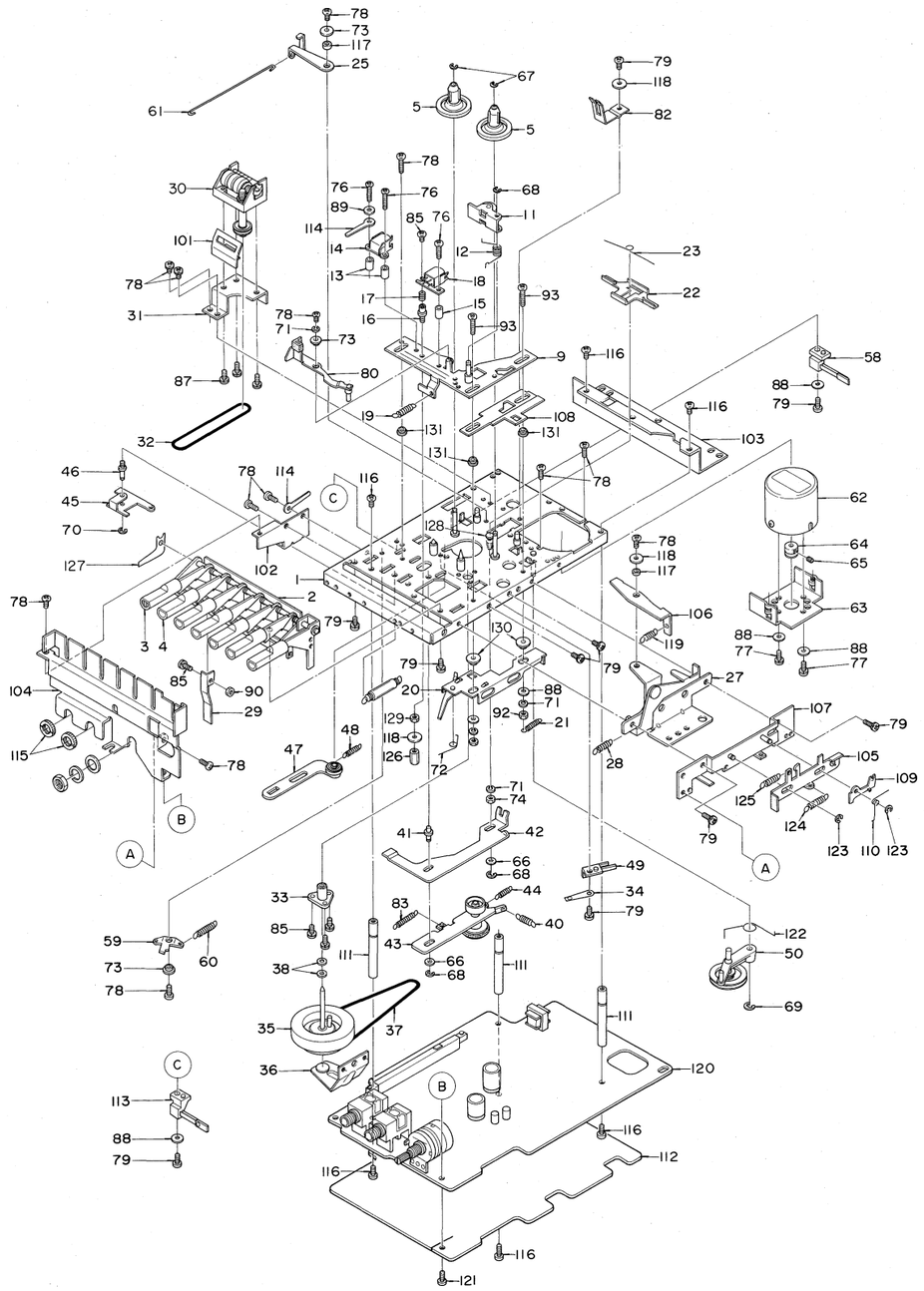


Fig. 7

ALIGNMENT INSTRUCTIONS (RADIO)-1

Frequency & Distance on Dial Scale

To accurately align to the proper frequencies on the dial scale, refer to Table at right and mark the edge of the dial scale accordingly, using the "Start Point" mark on the dial scale as a reference point.

Band	Frequency	Distance from "Start Point"
AM	550 kHz 1500 kHz	17.2 mm (11/16") 162 mm (6-5/8")
FM	90 MHz 106 MHz	23 mm (7/8") 153.3 mm (6-1/16")

Note:
1. Volume Control ..... Maximum (AM-IF & RF, FM-RF); Minimum (FM-IF)
2. Tone Control ..... High
3. Balance Control ..... Center
4. Band Selector ..... AM, FM AUTO
5. Power Voltage Selector 110V
6. Power Switch ..... ON
7. Output of signal generator should be no higher than necessary to obtain output reading.
8. Make certain that speaker system is connected to the tuner when aligning.

STEP	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (VTVM or SCOPE)	ADJUST	REMARKS
	CONNECTION	FREQUENCY				
	AM-IF & ALIGNMENT					
1	Fashion loop of several turns of wire and radiate signal into loop of receiver.	455 kHz 30% Mod. with 400 Hz	Point of non.-interference (on/ about 600 kHz)	Output meter across speaker jack (L) (Imp. 8Ω)	T201 (1st I.F.T.) T202 (2nd I.F.T.) T203 (3rd I.F.T.)	Adjust for maximum output.
2	Fashion loop of several turns of wire and radiate signal into loop of receiver.	550 kHz 30% Mod. with 400 Hz	550 kHz (17.2mm)	Output meter across speaker jack (L) (Imp. 8Ω)	L202 (ANT Coil) L201 (OSC Coil)	Adjust for maximum output by sliding coil (L202) along ferrite core.
3	Fashion loop of several turns of wire and radiate signal into loop of receiver.	1500 KHz 30% Mod with 400Hz	1500 kHz (162 mm)	Output meter across speaker jack (L) (Imp. 8Ω)	CT201 (ANT Trimmer) CT202 (OSC Trimmer)	Adjust for maximum output. Repeat steps (2) and (3).
	*** Cement antenna bobbin with wax after completing alignment.**					
	FM-IF & DETECTOR ALIGNMENT					
1	High side thru. 0.001 mfd to point TP1. Common to chassis.	10.7 MHz (400 kHz (SWP.)	Point of non-interference (on/ about 98 MHz)	Connect vert. amp. of scope to point TP2. Common to chassis.	T101 (FM 1st I.F.T.) T204, Core 1 (FM Disc. I.F.T.)	Adjust for maximum amplitude and symmetrical curve (Refer to Fig. 8-a)
2	High side thru. 0.001 mfd to point TP1. Common to chassis.	10.7 MHz (400 kHz SWP.)	Point of non.-interference (on/ about 98 MHz)	Connect vert. amp. of scope to point TP3. Common to chassis.	T204, Core 2 (FM Disc. I.F.T.)	Adjust for maximum amplitude and proper linearity between ±100 kHz markers. (Refer to Fig. 8-b)
	*** Before aligning step 1, turn the core-2 of T204 fully counterclockwise.**					
	FM-RF ALIGNMENT					
1	Connect to EXT. FM antenna terminal through Dummy antenna. Common to chassis. (Refer to Fig. 9)	90 MHz 30% Mod. with 400 Hz	90 MHz (23mm)	Output meter across speaker jack (L). (Imp. 8Ω)	L104 (FM OSC Coil) L101 (FM ANT Coil) L102 (FM DET Coil)	Adjust for maximum output.
2	Connect to EXT. FM antenna terminal through Dummy antenna. Common to chassis. (Refer to Fig. 9)	106 MHz 30% Mod. with 400 Hz	106 MHz (153.3mm)	Output meter across speaker jack (L). (Imp.8Ω)	CT103 (FM OSC Trimmer) CT101 (FM ANT Trimmer) CT102 (FM DET Trimmer)	Adjust for maximum output. Repeat steps (1) and (2).
	***As three output readings will be present, adjustments must be made at center frequency.**					

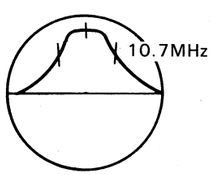


Fig. 8-a

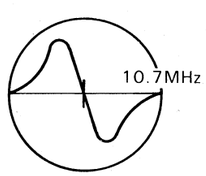


Fig. 8-b

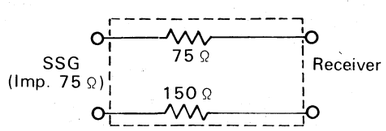


Fig. 9 DUMMY ANTENNA

ALIGNMENT INSTRUCTIONS (RADIO)-2

■ FM STEREO ALIGNMENT

Notes:
1. Stereo Modulator: Connect Stereo Modulator to EXT. Mod. terminal of signal generator
2. Signal Generator : Modulation Rate of 19 kHz Pilot Signal 10%
   Output Level ..... 30 dB
   Frequency ..... Approx. 98 MHz
3. Tuner : Volume Control ..... Audible level of speaker sound
   Tone Control ..... Low
   Band Selector ..... FM AUTO
   Balance Control ..... Center

19 kHz AMP. ALIGNMENT

EQUIPMENT CONNECTION		ADJUST	REMARKS
SIGNAL GENERATOR	OSCILLOSCOPE		
Connect to EXT. FM antenna terminal through dummy antenna. (Refer to Fig. 9.)	Connect vert. Amp. of scope to point TP4. Common to chassis.	T301 (MPX Coil)	Adjust for maximum oscilloscope pattern of 19 kHz.

SEPARATION ALIGNMENT

Notes:
1. Signal Generator : Modulation Rate of 19 kHz Pilot Signal 10%
   Modulation Rate of Right and Left Signal 27%
   Output Level ..... 60 dB
2. Tuner (Balance Control): Adjust balance control so that output level from both channels becomes equal.
3. Tone Control ..... Low

EQUIPMENT CONNECTION			ADJUST	REMARKS
SIGNAL GENERATOR	VTVM	OSCILLOSCOPE		
Connect to EXT. FM antenna terminal through dummy antenna. (Refer to Fig. 9.)	Connect across speaker jack. (Left side) (Imp. 8Ω)	Connect vertical amp. input of scope to terminals of VTVM.	T302 (MPX Coil) VR301 (Separation Control)	Adjust T301 and VR301 for minimum indication on VTVM from the left side output when the right side of stereo modulator is modulated. Adjust T301 and VR301 in the same way for the right side. Adjust for best balance between "L to R" and "R to L" separation.
*** Before separation alignment disconnect lead between TP4 and Oscilloscope.**				
	STEREO EYE LEVEL CHECK AND ALIGNMENT			
Connect to EXT. FM antenna terminal through dummy antenna. (Refer to Fig.9.)	Connect across speaker jack. (Left side) (Imp. 8Ω)	Connect to termianls of VTVM.	VR302 (Stereo Eye Level Adjust)	Stereo eye should light up when about 23 dB is applied from signal generator. If not, adjust VR302 to light up.

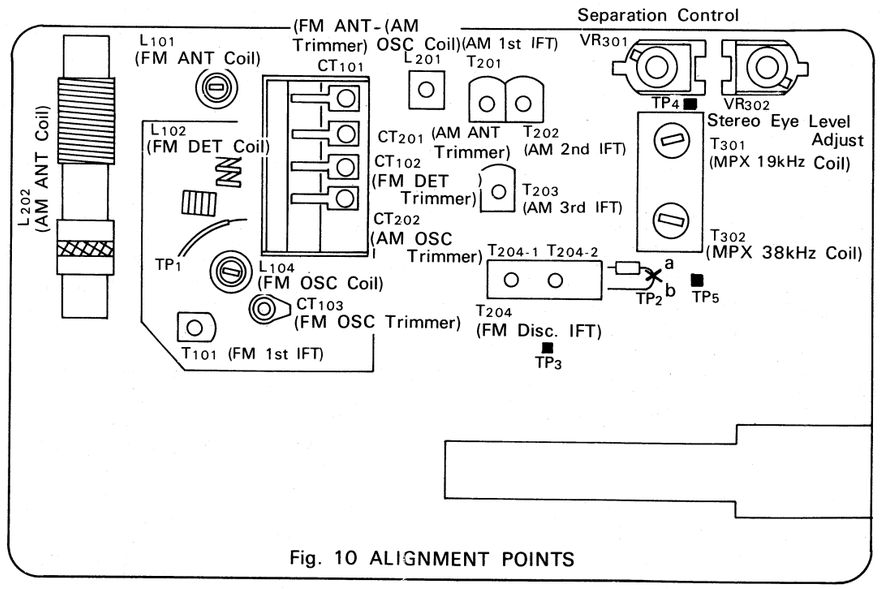
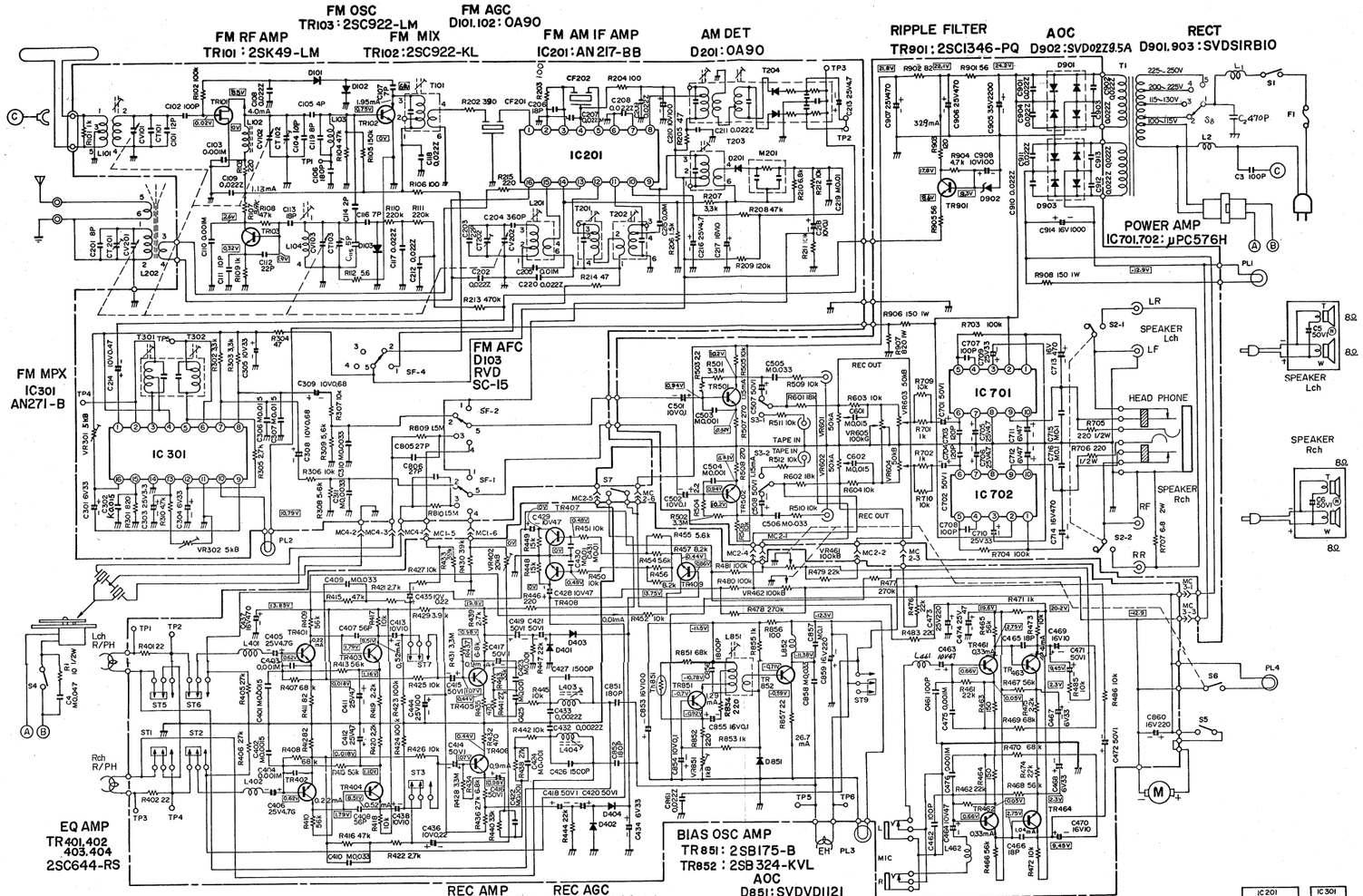


Fig. 10 ALIGNMENT POINTS

SCHEMATIC DIAGRAM MODEL SE-1077



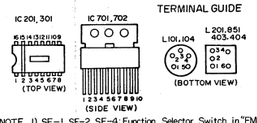
IC201 AN217-BB
IC301 AN271-B
IC701 μPC576H
IC702 μPC576H

TR101 2SK49-LM
TR102 2SC922-KL
TR103 2SC922-LM
TR401 2SC644-RS
TR402 2SC644-RS
TR403 2SC644-RS
TR404 2SC644-RS
TR405 2SC644-S
TR406 2SC644-S
TR407 2SC644-RS
TR408 2SC644-RS
TR409 2SC828-S
TR461 2SC644-RS
TR462 2SC644-RS
TR463 2SC644-RS
TR464 2SC644-RS
TR501 2SC644-S
TR502 2SC644-S
TR851 2SB175B
TR852 2SB324-KVL
TR901 2SC1346-PQ

D101 0A90
D102 0A90
D103 RVDSC-15
D201 0A90
D401 SVDVD1121
D402 SVDVD1121
D403 SVDVD1121
D404 SVDVD1121
D851 SVDVD1121
D901 SVDSIRBIO
D902 SVD02Z9.5A
D903 SVDSIRBIO

	S (V)	G (V)	D (V)	Id (mA)
TR101	0	0.02	5.5	4.0

	B (V)	C (V)	E (V)	Ic (mA)
TR102	0.75	6.4	0	1.95
TR103	1.9	2.64	1.84	1.13
TR501, 502	0.94	10.2	0.31	1.15
TR401, 402	0.62	1.79	0.018	0.22
TR403, 404	1.79	8.51	1.16	0.52
TR405, 406	1.07	10.98	0.44	0.9
TR407, 408	0.48	0	0	0
TR409	0.86	13.75	0.44	0.01
TR461, 462	0.66	2.73	0.05	0.33
TR463, 464	2.75	9.45	2.3	1.04
TR851	-0.7	-10.78	-0.92	1.29
TR852	-0.71	-11.38	-0.59	26.7
TR901	9.3	17.8	8.6	329



TERMINAL GUIDE

NOTE 1) SF-1, SF-2, SF-4: Function Selector Switch in "FM AUTO" position. 1. AM 2. FM AUTO 3. PHONO 4. CASSETTE
2) S1: Power Switch in "OFF" position.
3) S2-1, S2-2: Stereo ↔ Q'Plex Selector Switch in "STEREO" position.
4) S3-1, S3-2: Tape ↔ Source Selector Switch in "SOURCE" position.
5) S4: Phono - Motor Switch in "OFF" position.
6) S5: Cassette - Motor Switch in "OFF" position.
7) S6: Mic-Mixing Switch in "OFF" position.
8) S7: Cassette Pre-Amp Switch in "OFF" position.
9) S8: Power Voltage Selector Switch in "100 - 115 V" position. 1. COMMON 2. 100 - 115V 3. 115 - 130V 4. 200 - 225V 5. 225 - 250V
10) ST1 - ST9: Cassette REC/PLAY Switch in "PLAY" position.
11) DC Voltages are to be measured with VTVM from the chassis ground under no signal condition.

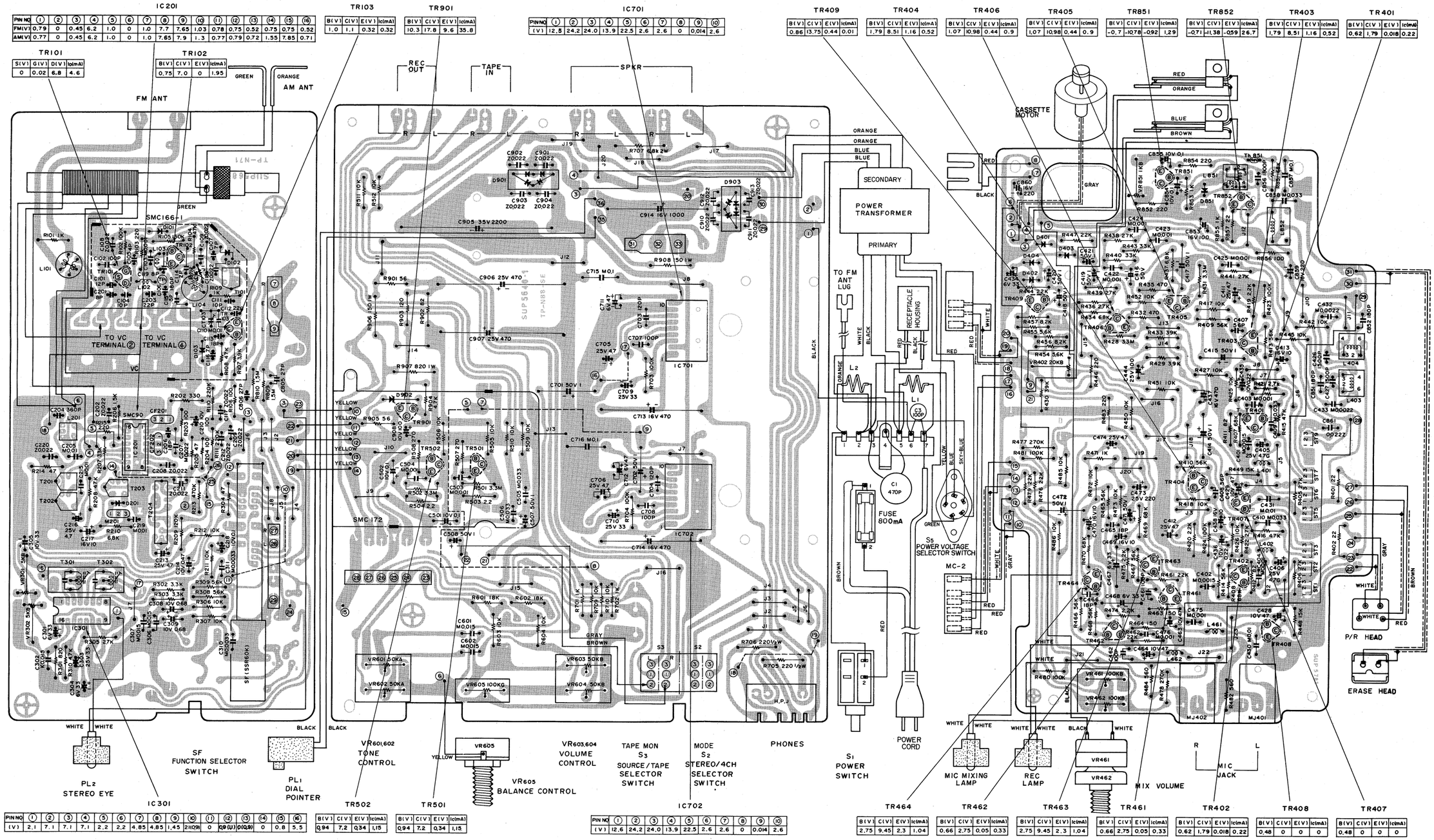
IC 201			
PIN NO.	F MTR	AMTR	
①	0.79	0.77	
②	0	0	
③	0.37	0.45	
④	5.5	9.5	
⑤	1.0	1.0	
⑥	0	0	
⑦	1.0	1.0	
⑧	6.9	6.9	
⑨	6.9	7.0	
⑩	1.2	1.3	
⑪	0.78	0.77	
⑫	0.9	6.9	
⑬	0.57	0.72	
⑭	0.9	1.55	
⑮	0.9	6.9	
⑯	0.57	0.71	

IC 301	
PIN NO.	(V)
①	2.1
②	6.5
③	6.5
④	6.5
⑤	2.2
⑥	2.2
⑦	4.5
⑧	4.5
⑨	1.45
⑩	2.108
⑪	0
⑫	0.90.8
⑬	0.108
⑭	0
⑮	0.8
⑯	4.4

IC 701	
PIN NO.	(V)
①	12.5
②	24.2
③	24.0
④	13.9
⑤	22.5
⑥	2.6
⑦	2.6
⑧	0
⑨	0.014
⑩	2.6

IC 702	
PIN NO.	(V)
①	12.6
②	24.2
③	24.0
④	13.9
⑤	22.5
⑥	2.6
⑦	2.6
⑧	0
⑨	0.014
⑩	2.6

WIRING DIAGRAM MODEL SE-1077



PIN NO	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
FM(V)	0.79	0	0.45	6.2	1.0	0	1.0	7.7	7.65	1.03	0.78	0.75	0.52	0.75	0.75	0.52
AM(V)	0.77	0	0.45	6.2	1.0	0	1.0	7.65	7.9	1.3	0.77	0.79	0.72	1.55	7.85	0.71

S(V)	G(V)	D(V)	Ic(mA)
0	0.02	6.8	4.6

B(V)	C(V)	E(V)	Ic(mA)
0.75	7.0	0	1.95

B(V)	C(V)	E(V)	Ic(mA)
1.0	1.1	0.32	0.32

B(V)	C(V)	E(V)	Ic(mA)
10.3	17.8	9.6	35.8

PIN NO	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
(V)	12.5	24.2	24.0	13.9	22.5	2.6	2.6	0	0.014	2.6

B(V)	C(V)	E(V)	Ic(mA)
0.86	13.75	0.44	0.01

B(V)	C(V)	E(V)	Ic(mA)
1.79	8.51	1.16	0.52

B(V)	C(V)	E(V)	Ic(mA)
1.07	10.98	0.44	0.9

B(V)	C(V)	E(V)	Ic(mA)
1.07	10.98	0.44	0.9

B(V)	C(V)	E(V)	Ic(mA)
-0.7	-10.78	-0.92	1.29

B(V)	C(V)	E(V)	Ic(mA)
-0.71	-11.38	-0.59	26.7

B(V)	C(V)	E(V)	Ic(mA)
1.79	8.51	1.16	0.52

B(V)	C(V)	E(V)	Ic(mA)
0.62	1.79	0.018	0.22

PIN NO	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
(V)	2.1	7.1	7.1	7.1	2.2	2.2	4.85	4.85	1.45	2.1(10.9)	0	0.9(11)	0.1(0.9)	0	0.8	5.5

B(V)	C(V)	E(V)	Ic(mA)
0.94	7.2	0.34	1.15

B(V)	C(V)	E(V)	Ic(mA)
0.94	7.2	0.34	1.15

PIN NO	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
(V)	12.6	24.2	24.0	13.9	22.5	2.6	2.6	0	0.014	2.6

B(V)	C(V)	E(V)	Ic(mA)
2.75	9.45	2.3	1.04

B(V)	C(V)	E(V)	Ic(mA)
0.66	2.75	0.05	0.33

B(V)	C(V)	E(V)	Ic(mA)
2.75	9.45	2.3	1.04

B(V)	C(V)	E(V)	Ic(mA)
0.66	2.75	0.05	0.33

B(V)	C(V)	E(V)	Ic(mA)
0.62	1.79	0.018	0.22

B(V)	C(V)	E(V)	Ic(mA)
0.48	0	0	0

B(V)	C(V)	E(V)	Ic(mA)
0.48	0	0	0

ALIGNMENT INSTRUCTIONS (TAPE DECK)

■ ALIGNMENT POINT

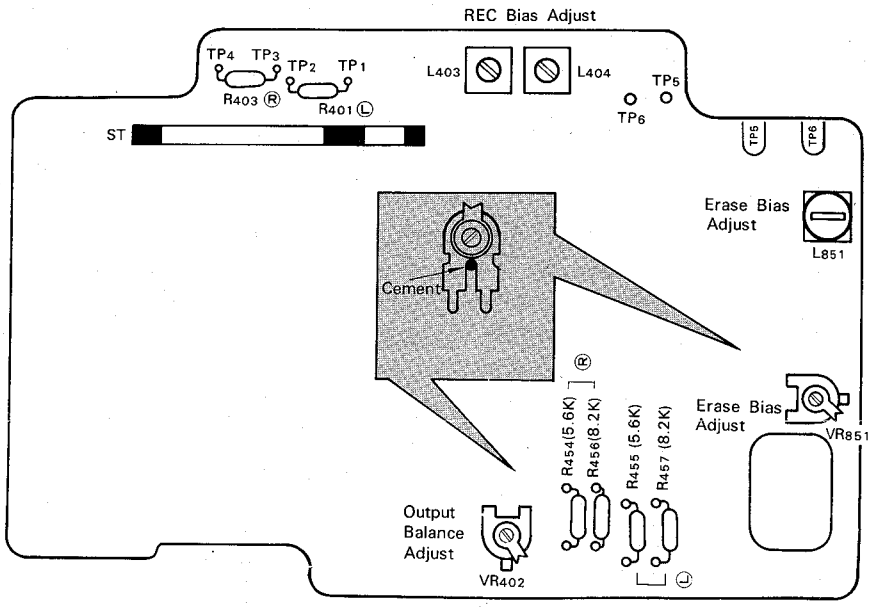


Fig. 11

■ RECORD/PLAYBACK HEAD AZIMUTH ADJUSTMENT

Play back a Standard Alignment Tape and turn head adjustment screw for maximum loudness.

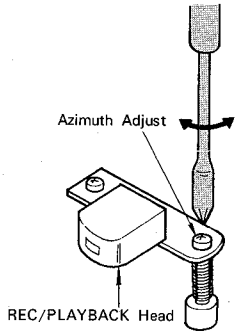


Fig. 12

■ BIAS VOLTAGE ALIGNMENT

STEP	CIRCUIT	VTVM CONNECTION	ADJUSTMENT	REMARKS
1	Output Balance	Speaker Terminals	VR402 (Output Balance Adjust)	Play back standard tape VTT628 and adjust VR402 by using 1 kHz so that right side output equals left.
2	Erase Bias	TP5, TP6	L851 (Erase Bias Adjust) VR851 (Erase Bias Adjust)	Adjust L851 for maximum indication of VTVM. Adjust VR851 for 6.8 – 7.5V reading on VTVM.
3	Record Bias	TP1, TP2, TP3, TP4	L403 (L) L404 (R) (Record Bias Adjust)	Adjust L403 (L404) for 7.3 – 8mV reading on VTVMs. The core of L403 (L404) should be turned to lower.
4	Erase Bias Record Bias	TP5, 6 TP1, 2, 3, 4	L851, VR851 L403, L404	Repeat steps (2) and (3) and make sure that each outputs are satisfied the standards.

*** Connect TP2, TP4 and TP6 to ground (earth) on VTVM.**

■ AGC ALIGNMENT

Notes:

1. Function Selector . . . . . TAPE
2. Tone Control . . . . . High
3. Balance Control . . . . . Center
4. Mixing Volume . . . . . OFF
5. Tape Monitor . . . . . TAPE
6. RC Oscillator and Attenuator . . . . . Connect to Playback Terminal (1 kHz 100mV)
7. VTVM . . . . . Connect to TP1 and TP2 (TP3 and TP4)
8. 3P Plug . . . . . Disconnect
9. The voltage difference between TP1 – TP2 and TP3 – TP4 should be less than 2 dB.

STEP	CIRCUIT	VTVM CONNECTION	ADJUSTMENT	REMARKS
1	Left	TP1, TP2	R455 (5.6 k) R457 (8.2 k)	If left side voltage less than right, cut R455 or R457 and left side voltage may increases.
2	Right	TP3, TP4	R454 (5.6 k) R456 (8.2 k)	Check as to right side voltage by using the same way.

REPLACEMENT PARTS LIST

Ref. No.	Part No.	Description	Per set (pcs.)	Remarks
TRANSISTORS AND INTEGRATED CIRCUITS				
TR101	2SK49-L, M	FM RF Amplifier	1	
TR102	2SC922-K, L	FM Mixer	1	
TR103	2SC922-L, M	FM Oscillator	1	
TR405,406 501,502	2SC644-S	REC Amp. and AF Amplifier	4	or 2SC900-E
TR401~404 461~464 407, 408	2SC644-R, S	Equalizer Amp. and Mike Amp.	10	
TR409	2SC828-S	REC AGC	1	
TR901	2SC1383-P, Q	Ripple Filter	1	or 2SC1346 -P,Q
IC201	AN217-BB	FM and AM IF Circuit	1	
IC301	AN271-B	FM MPX Circuit	1	
IC701,702	μPC576H	Power Output	2	
TR851	2SB175-B	Bias Oscillator Amplifier	1	
TR852	2SB324-K,V,L	AOC	1	
DIODES				
D101,102 201	OA90	FM AGC, AM DET	3	
D103	RVDSC-15	FM AFC	1	
D901,903	SVDS1RB10	Rectifier	2	
D902	SVD02Z9.5A	AOC	1	
D401~404 851	SVDVD1121	Rectifier, AOC	5	
THERMISTOR				
TH851	RRT103	Temperature Compensator	1	
LAMPS AND FUSE				
PL2,3,4	XAM16T500	REC, Mike Mixing and FM Stereo Lamp	3	
F1	XBA1C08NS5	Fuse , 800mA	1	
COILS AND TRANSFORMERS				
L101	SLA4P8	FM Antenna Coil	1	
L102	SLD4Y10	FM DET Coil	1	
L104	SLO4P6	FM Oscillator Coil	1	
L103,401 402,461,462	SLQY11G-2	RFC	5	
CF201,202	RVFCF10M12C	FM Ceramic Filter	2	
L202	SLF2C2	AM Ferrite Antenna Coil	1	
L201	RLO2B83M	AM Oscillator Coil	1	
L1,2	SLQY35S-2D	RFC	2	
L403,404	RLQC542-1	Bias Trap Coil	2	
L851	SLO9Z10-T	Bias Oscillator Coil	1	
L852	SLT6E2-D	Choke Transformer	1	
T101	RLI4M101	FM 1st IFT	1	
T204	EULBFD108R	FM Discriminator IFT	1	
T201	RLI2M201	AM 1st IFT	1	
T202	RLI2M202	AM 2nd IFT	1	
T203	RLI2M401	AM 3rd IFT	1	
T301,302	SLM5Z2-K	FM MPX Coil	2	
T1	SLT5W48	Power Transformer	1	
COMPONENT COMBINATION				
M201	EXAF203Z471	0.01μF (two), 470Ω	1	
RESISTORS (Main Circuit)				
R905	ERD14TJ560	56Ω ¼Watt ±5% Carbon	1	
R903	ERD14TJ121	120Ω ¼Watt ±5% Carbon	1	
R507,508	ERD14TJ271	270Ω ¼Watt ±5% Carbon	2	
R701,702	ERD14TJ102	1kΩ ¼Watt ±5% Carbon	2	
R904	ERD14TJ472	4.7kΩ ¼Watt ±5% Carbon	1	
R505,506 509,510,511 512,603,604 709,710	ERD14TJ103	10kΩ ¼Watt ±5% Carbon	10	
R601,602	ERD14TJ183	18kΩ ¼Watt ±5% Carbon	2	
R703,704	ERD14TJ104	100kΩ ¼Watt ±5% Carbon	2	
R503,504	ERD14TJ2R2	2.2Ω ¼Watt ±5% Carbon	2	
R501,502	ERC12GK335Z	3.3MΩ ½Watt ±10% Solid	2	

Ref. No.	Part No.	Description	Per set (pcs.)	Remarks
R901	ERD14FJ560	56Ω ¼Watt ±5% Carbon	1	
R902	ERD14TJ820	82Ω ¼Watt ±5% Carbon	1	
R705,706	ERD12TJ221	220Ω ½Watt ±5% Carbon	2	
R707	ERX2ANK6R8	6.8Ω 2Watt ±10% Metal Film	1	
R907	ERG1ANJ821	820Ω 1Watt ±5% Metal Film	1	
R906,908	ERG1ANJ151	150Ω 1Watt ±5% Metal Film	2	
(RF, IF and MPX Circuit)				
R112	ERD14VJ5R6	5.6Ω ¼Watt ±5% Carbon	1	
R205,214 304	ERD14TJ470	47Ω ¼Watt ±5% Carbon	3	
R106,203 204	ERD14TJ101	100Ω ¼Watt ±5% Carbon	3	
R103	ERD14TJ221	220Ω ¼Watt ±5% Carbon	1	
R202	ERD14TJ391	390Ω ¼Watt ±5% Carbon	1	
R301	ERD14TJ821	820Ω ¼Watt ±5% Carbon	1	
R101,109	ERD14TJ102	1kΩ ¼Watt ±5% Carbon	2	
R206	ERD14TJ152	1.5kΩ ¼Watt ±5% Carbon	1	
R305	ERD14TJ272	2.7kΩ ¼Watt ±5% Carbon	1	
R207,302 303	ERD14TJ332	3.3kΩ ¼Watt ±5% Carbon	3	
R310	ERD14TJ472	4.7kΩ ¼Watt ±5% Carbon	1	
R107	ERD14TJ392	3.9kΩ ¼Watt ±5% Carbon	1	
R308,309	ERD14TJ562	5.6kΩ ¼Watt ±5% Carbon	2	
R210	ERD14TJ682	6.8kΩ ¼Watt ±5% Carbon	1	
R212,306 307,211	ERD14TJ103	10kΩ ¼Watt ±5% Carbon	4	
R104,108 208	ERD14TJ473	47kΩ ¼Watt ±5% Carbon	3	
R102	ERD14TJ104	100kΩ ¼Watt ±5% Carbon	1	
R209	ERD14TJ124	120kΩ ¼Watt ±5% Carbon	1	
R105	ERD14TJ154	150kΩ ¼Watt ±5% Carbon	1	
R110,111	ERD14TJ224	220kΩ ¼Watt ±5% Carbon	2	
R213	ERD14TJ474	470kΩ ¼Watt ±5% Carbon	1	
R215	ERD14VJ221	220Ω ¼Watt ±5% Carbon	1	
R809,810	ERC14GK155	1.5MΩ ¼Watt ±5% Solid	2	
(Equalizer Circuit)				
R401,402 R857	ERD14TJ220	22Ω ¼Watt ±5% Carbon	3	
R411,412	ERD14TJ820	82Ω ¼Watt ±5% Carbon	2	
R856	ERD14TJ101	100Ω ¼Watt ±5% Carbon	1	
R463,464	ERD14TJ151	150Ω ¼Watt ±5% Carbon	2	
R446,483 852,854	ERD14TJ221	220Ω ¼Watt ±5% Carbon	4	
R432,435	ERD14TJ471	470Ω ¼Watt ±5% Carbon	2	
R471,835 855	ERD14TJ102	1kΩ ¼Watt ±5% Carbon	3	
R419,420 475,474	ERD14TJ222	2.2kΩ ¼Watt ±5% Carbon	4	
R429	ERD14TJ392	3.9kΩ ¼Watt ±5% Carbon	1	
R421,422 436,439	ERD14TJ272	2.7kΩ ¼Watt ±5% Carbon	4	
R434,437	ERD14TJ682	6.8kΩ ¼Watt ±5% Carbon	2	
R417,418 425,426,427 442,445,450 451,452,472 473,485,486	ERD14TJ103	10kΩ ¼Watt ±5% Carbon	14	
R448,449	ERD14TJ153	15kΩ ¼Watt ±5% Carbon	2	
R461,462 444,447,476 479	ERD14TJ223	22kΩ ¼Watt ±5% Carbon	6	
R405,406 438,441	ERD14TJ273	27kΩ ¼Watt ±5% Carbon	4	
R440,443	ERD14TJ333	33kΩ ¼Watt ±5% Carbon	2	
R430,433	ERD14TJ393	39kΩ ¼Watt ±5% Carbon	2	
R415,416	ERD14TJ473	47kΩ ¼Watt ±5% Carbon	2	
R409,410 413,414,467 468,465,466	ERD14TJ563	56kΩ ¼Watt ±5% Carbon	8	
R407,408 469,470,851	ERD14TJ683	68kΩ ¼Watt ±5% Carbon	5	
R423,424 480,481	ERD14TJ104	100kΩ ¼Watt ±5% Carbon	4	
R477,478	ERD14TJ274	270kΩ ¼Watt ±5% Carbon	2	
R428,431	ERC12GK335Z	3.3MΩ ½Watt ±10% Carbon	2	
R454,455	ERD14TJ562	5.6kΩ ¼Watt ±5% Carbon	2	
R456,457	ERD14TJ822	8.2kΩ ¼Watt ±5% Carbon	2	

REPLACEMENT PARTS LIST

Ref.No.	Part No.	Description	Per set (pcs.)	Remarks
		CAPACITORS (Main Circuit)		
C707,708	ECCD1H101K	100pF 50WV ±10% Ceramic	2	
C703,704	ECCD1H121K	120pF 50WV ±10% Ceramic	2	
C503,504	ECKD1H102MD	0.001μF 50WV ±20% Ceramic	2	
C910~913 C901~904	ECKD1H223ZF	0.022μF 50WV +80% −20% Ceramic	8	
C601,602	ECQM05153MZ	0.015μF 50WV ±20% Polyester	2	
C505,506	ECQM05333MZ	0.033μF 50WV ±20% Polyester	2	
C715,716	ECQM05104MZ	0.1μF 50WV ±20% Polyester	2	
C705,706	ECEA25V4R7L	4.7μF 25WV Electrolytic	2	
C709,710	ECEA25V33L	33μF 25WV Electrolytic	2	
C908	ECEA10V100L	100μF 10WV Electrolytic	1	
C711,712	ECEA6V47L	47μF 6WV Electrolytic	2	
C701,702	ECEB50V1L	1μF 50WV Electrolytic	2	
C713,714	ECEB16V470L	470μF 16WV Electrolytic	2	
C906,907	ECEB25V470L	470μF 25WV Electrolytic	1	
C905	ECEB35V2200Z	2200μF 35WV Electrolytic	1	
C507,508	ECEA50V1L	1μF 50WV Electrolytic	2	
C3	ECKDDS101MB	100pF 250WV ±20% Ceramic	1	
C2	ECKDDS471MB	470pF 250WV ±20% Ceramic	1	
C5,6	ECTB50Y1	1μF 50WV Electrolytic	2	for Speaker System
C501,502	ECAF10ER1	0.1μF 10WV Electrolytic	2	
		(IF, RF and MPX Circuit)		
C114	ECCD1H020C	2pF 50WV ±0.25pF Ceramic	1	
C105	ECCD1H040C	4pF 50WV ±0.25pF Ceramic	1	
C115	ECCD1H050C	5pF 50WV ±0.25pF Ceramic	1	
C107,116	ECCD1H070D	7pF 50WV ±0.5pF Ceramic	2	
C119,201	ECCD1H080D	8pF 50WV 0.5pF Ceramic	2	
C104,111	ECCD1H100F	10pF 50WV ±1pF Ceramic	2	
C101	ECCD1H120K	12pF 50WV ±10% Ceramic	1	
C805,806	ECCD1H270K	27pF 50WV ±10% Ceramic	2	
C113,206	ECCD1H180K	18pF 50WV ±10% Ceramic	2	
C112,203	ECCD1H220K	22pF 50WV ±10% Ceramic	2	
C102	ECCD1H101K	100pF 50WV ±10% Ceramic	1	
C103,110	ECKC1H102MD	0.001μF 50WV ±20% Ceramic	2	
C205,215	ECKC1H103MD	0.01μF 50WV ±20% Ceramic	2	
C207	ECKC1H223MD	0.022μF 50WV ±20% Ceramic	1	
C108,109 117,202,208 209,211,212 220	ECKC1H223ZFZ	0.022μF 50WV +80% −20% Ceramic	9	
C118	ECKD1H223ZFZ	0.022μF 50WV +80% −20% Ceramic	1	
C106	ECQS1181JZ	180pF 100WV ±5% Styrol	1	
C204	ECQS1361JZ	360pF 100WV ±5% Styrol	1	
C310,311	ECQM05332MZ	0.0033μF 50WV ±20% Polyester	2	
C219	ECQM05103MZ	0.01μF 50WV ±20% Polyester	1	
C306,307	ECQM05153MZ	0.015μF 50WV ±20% Polyester	2	
C302	ECQM05153MZ	0.015μF 50WV ±10% Polyester	1	
C218	ECAF10ER1	1μF 10WV Electrolytic	1	
C308,309	ECAF10ER68	0.68μF 10WV Electrolytic	2	
C214	ECAF10ER47	0.47μF 10WV Electrolytic	1	
C303	ECEA25V3R3L	3.3μF 25WV Electrolytic	1	
C216	ECEA25V4R7L	4.7μF 25WV Electrolytic	1	
C217	ECEA16V10L	10μF 16WV Electrolytic	1	
C301,304	ECEA6V33L	33μF 6WV Electrolytic	2	
C210	ECEA10V100L	100μF 6WV Electrolytic	1	
C213	ECEB25V4R7L	4.7μF 6WV Electrolytic	1	
		(Equalizer Circuit)		
C465,466	ECCD1H180K	18pF 50WV ±10% Ceramic	2	
C407,408	ECCD1H560K	56pF 50WV ±10% Ceramic	2	
C461,462	ECCD1H101K	100pF 50WV ±10% Ceramic	2	
C851,852	ECCD1H181K	180pF 50WV ±10% Ceramic	2	
C403,404 476,475	ECKD1H102MD	0.001μF 50WV ±20% Ceramic	4	
C861	ECKD1H223ZFZ	0.022μF 50WV +80% −20% Ceramic	1	
C856	ECQS1182JZ	1800pF 100WV ±5% Styrol	1	
C426,427	ECQS1152JZ	1500pF 100WV ±5% Styrol	2	
C430,431	ECQM05103MZ	0.01μF 50WV ±20% Polyester	2	
C409,410 858	ECQM05333MZ	0.033μF 50WV ±20% Polyester	3	

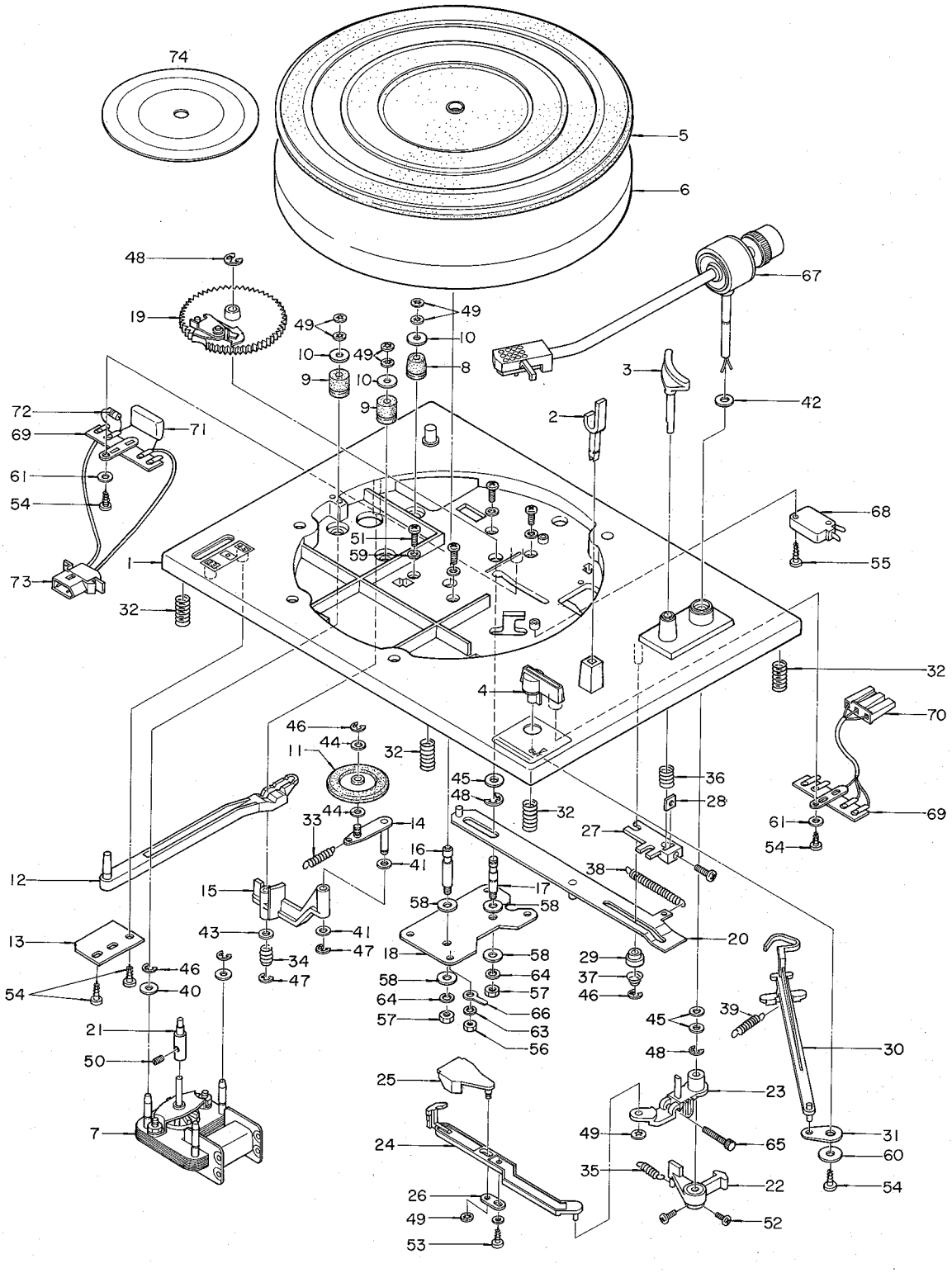
Ref. No.	Pare No.	Description	Per set (pcs.)	Remarks
C432,433	ECQM05222MZ	0.0022μF 50WV ±20% Polyester	2	
C422,423 424,425	ECQM05102MZ	0.001μF 50WV ±20% Polyester	4	
C857	ECQM05104MZ	0.1μF 50WV ±20% Polyester	1	
C401,402	ECQM05152MZ	0.0015μF 50WV ±20% Polyester	2	
C854	ECAF10ER1	0.1μF 10WV Electrolytic	1	
C435,436	ECAF10ER22	0.22μF 10WV Electrolytic	2	
C855	ECAF16ER1	0.1μF 16WV Electrolytic	1	
C416,418 419,420,421 471	ECEA50V1L	1μF 50WV Electrolytic	6	
C417,472 414,415	ECEB50V1L	1μF 50WV Electrolytic	4	
C434	ECEA6V33L	33μF 6WV Electrolytic	1	
C429,428 463,464	ECEA10V47L	47μF 10WV Electrolytic	4	
C405,406	ECEA25V4R7G	4.7μF 25WV Electrolytic	2	
C467,468	ECEB6V33L	33μF 6WV Electrolytic	2	
C438,413 C469,470	ECEA16V10L	10μF 16WV Electrolytic	4	
C474	ECEA25V47L	47μF 25WV Electrolytic	1	
C473	ECEA25V220L	220μF 25WV Electrolytic	1	
C444	ECEA25V100L	100μF 25WV Electrolytic	1	
C437	ECEA16V470L	470μF 16WV Electrolytic	1	
C853	ECEA16V100L	100μF 16WV Electrolytic	1	
C859,860	ECEA16V220L	220μF 16WV Electrolytic	2	
C411,412	ECEA25V4R7L	4.7μF 25WV Electrolytic	2	
		VARIABLE RESISTORS		
VR601,602	EWFNTAK30A54	50kΩ Tone Control	1	ⓚ
VR603,604	EWFNVAK30A54	50kΩ Volume Control	1	ⓚ
VR605	EVE2DAK30G15	100kΩ Balance Control	1	
VR301,302	EVLS3AA00B53	5kΩ Stereo Eye, Separation Control	2	
VR461,462	EWFNVDK20B15	100kΩ Mike Mixing w/Switch 6	1	
VR851	EVLS3AA00B13	1kΩ AC Bias Control	1	
VR402	EVLS3AA00B24	20kΩ Gain Control	1	
		VARIABLE CAPACITORS		
CT101,102 201,202	ECV5MD34X51G	Tuning Capacitor	1	
CT103	ECV1ZW10X32	Trimmer Capacitor	1	
		SWITCHES		
S1	ESB-1140DS	Power Switch	1	
S2,3	SSH202	Tape Monitor and 4-channel Switch	1	
SF1-6	SSR60K	Function Selector Switch	1	ⓚ
ST1~9	SSH36	REC Switch	1	
S8	SSR6	Power Voltage Selector	1	
		SPEAKERS		
	EAS16P24SC	16 cm Woofer 8Ω	2	
	EAS5PH34SB	5cm Tweeter 8Ω	2	
		CHASSIS		
CH1	SDT1302K	Tuning Shaft	1	ⓚ
CH2	RDY1	Pulley Shaft	1	
CH3	RDY2	Pulley Shaft	1	
CH4	RDR8-1	Pulley	3	
CH5	RDY8	Pulley Shaft	2	
CH6	RDR13	Pulley	1	
CH7	SHG958	Rubber Cushion, Lamp	3	
CH8	SDD39-2S	Dial Drum	1	
CH9	RDS309	Drum Spring	1	
CH10	SMY124	Heat Sink	1	
CH11	RDZ05-A	Dial Cord	160cm	
CH12	SDP148-1	Dial Pointer	1	
CH13	SJT709	Antenna Lug	1	
CH14	SJF3802	8P Jack	1	
CH15	SJJ43	Headphone Jack	1	
CH16	SJF4204	Antenna Terminal Board	1	
CH17	SJA104	Power Cord with Plug	1	
CH18	XTV3+10B	Screw, Bottom Cover Mounting	5	
CH19	XTW3+10B	Screw, Bottom Cover Mounting	7	

REPLACEMENT PARTS LIST

Ref. No.	Part No.	Description	Per set (pcs.)	Remarks
CH20	SMX86	Cover, Fiber	1	
CH21	SJJ37	Mike Jack	2	
CH22	SJF104	1P Fuse Holder	1	
MC2	SWK70	6P Connector Assembly	1	
MC1	SWK72	6P Connector Assembly	1	
MC3	SWK74	3P Connector Assembly	1	
CH23	SWK80	Plug Housing Assembly	1	
CH24	SJR604	Terminal Strip, 6P	1	
		CABINET		
CA1	SGE576	Dust Cover	1	
CA2	SGB534	Badge	1	
CA3	SYK1318	Cabinet, Complete	1	
CA4	SGW2961	Panel	1	
CA5	SKD3382	Dial	1	
CA6	SKF1941	Bottom Cover	1	
CA7	SYU244-2	Bottom Board	1	
CA8	SQX9538-1	Indicator Label, Jack Placement	1	
CA9	SQT9018	Indicator Label, ANT Placement	1	
CA10	SHS3018	Foot	4	
CA11	SBH9079	Hinge	2	
CA12	SBN570K	Tuning Knob	1	❹
CA13	SBN572K-1	V Knob	5	❹
CA14	SBC148	Push Button A	1	
CA15	SBC150	Push Button B	2	
CA16	SGL68	Stereo Eye	1	
CA17	SGN2120	Specification Plate	1	
CA18	SGE584	Cassette Cover	1	
CA19	SGX896	Trim, Cassette Part	1	
CA20	SXE60	Shaft Assembly, Cassette Cover	2	
CA21	SUS122	Spring, right	1	
CA22	SUS124	Spring, left	1	
CA23	SDH94	Reflective Sheet	1	
CA24	SBC158	Reset Button	1	
		SPEAKER CABINET		
CA25	SKA1181	Speaker Enclosure	2	
CA26	SYB142	Baffle Board Assembly	2	
CA27	SGB321	Badge	2	
CA28	SKU1680	Rear Board	2	
CA29	SGN2200	Name Plate	2	
CA30	SKW16-1	Speaker Bracket for Wall	2	
CA31	SJB302	Terminal Strip, 3P	2	
CA32	SJP2110	Speaker Cord	2	
		PACKING		
PA1	SPN2058	Carton, Center Unit	1	
PA2	SPN2004-1	Top Pad, Center Unit	1	
PA3	SPN2002-3	Bottom Pad A, Center Unit	1	
PA4	SPN2056	Corner pad, Center Unit	4	
PA5	SPN2006	Pad, Dust Cover	1	
PA6	SPN2008	TT Pad	1	
PA7	SPN2086	Bottom Pad B, Center Unit	1	
PA8	SPP192-1	Soft Cover	1	
PA9	SPP108	Polyethylene Sheet	1	
PA10	SPN2060	Carton, Speaker System	1	
PA11	SPN2106	Corner Pad, Speaker System	8	
PA12	SPN2088-1	Center Pad, Speaker System	1	
PA13	SPP48	Polyethylene Sheet, Speaker System	2	
PA14	SQX5626	Operating Instructions	1	

Ref. No.	Part No.	Description	Per set (pcs.)	Remarks
		RECORD PLAYER SP-501A		
1	SJY1002-1	Player Board Assembly	1	
	SJY16	Player Board	1	
	SGK526	Indicator Plate, Speed Change	1	
	SJY9030	Indicator Plate, Auto-cut	1	
	SJY5008	Lift Holder	1	
	SJY5016	Hole Cover	1	
	SUW926	Bracket A	2	
	SUW928	Bracket B	1	
2	SJY5004	Pickup Rest	1	
3	SJY5010	Lifter	1	
4	SJY5012	Knob	1	
5	SJY4004-1	Turntable Mat	1	
6	SJY4	Turntable	1	
7	2E-10T-3	Phonomotor	1	
8	FFGBS010	Rubber Cushion	1	
9	SHG9068	Rubber Cushion	2	
10	SNW392	Rubber Washer	3	
11	FFIPA006	Idler Wheel	1	
12	SJY12	Selector Lever Assembly	1	
13	SJY9010	Bracket, Selector Lever	1	
14	SJY2	Idler Lever	1	
15	SJY9018	Selector Arm	1	
16	SJY9004	Turntable Shaft	1	
17	SJY9034	Main Gear Shaft	1	
18	SJY9002	Plate, Turntable Shaft	1	
19	SFUG623-1E	Main Gear Assembly	1	
20	SJY6	Operating Plate Assembly	1	
21	FF-MCP0805C	Capstan for 50Hz	1	
	FF-MCP0806C	Capstan for 60Hz	1	
22	SJY9016-1	Switch Lever	1	
23	SFUM623-4E	Pickup Plate	1	
24	SJY9042	Actuating Link	1	
25	SJY9044	Switch Control Plate	1	
26	SJY9046	Switch Control Bracket	1	
27	SJY9048	Stopper, Lift	1	
28	SNE424	Holder, Stopper	1	
29	SFUM623-2	Collar, Operating Plate	1	
30	SJY9052	Feed Link	1	
31	SJY9054	Cut Lever	1	
32	SJY9028	Spring	4	
33	SJY9024	Spring, Idler Pulley	1	
34	SJY9026	Spring, Selector Arm	1	
35	SJY9056	Spring, Pickup Plate	1	
36	SJY9058	Spring A, Lift	1	
37	SJY9060	Spring B, Lift	1	
38	SJY9062	Spring, Operating Plate	1	
39	SJY9064	Spring, Feed Link	1	
40	SNW412-1	Fiber Washer	2	
41	SNW522	Nylon Washer 5ϕ	2	
42	SNW622-2	Nylon Washer 6ϕ	1	
43	SNW522-1	Fiber Washer 5ϕ	1	
44	SNW412	Washer 4ϕ	2	
45	SNW622-2	Washer 6ϕ	3	
46	XUC3	Circlip 3ϕ	4	
47	XUC4	Circlip 4ϕ	2	
48	XUC5	Circlip 5ϕ	3	
49	SNE428	Push Nut	8	
50	XXAR3H3	Screw for Capstan	1	
51	XSN3+12S	Screw 3 x 12mm	4	
52	XSN3+5S	Screw 3 x 5mm	2	
53	XTV23+6B	Screw 2.3 x 6mm	1	
54	XTV3+8B	Screw 3 x 8mm	5	
55	XTV3+16B	Screw 3 x 16mm	1	
56	XNG3S	Nut 3m/m	1	
57	XNG4S	Nut 4m/m	2	
58	XWE4F13B	Washer	4	
59	XWE3D8	Washer	4	
60	XWE3E16B	Washer	1	
61	XWE3E10	Washer	2	
62	XWE2.3x6	Washer	1	
63	XWA3B	Washer	1	

EXPLODED VIEW OF RECORD PLAYER



REPLACEMENT PARTS LIST

Ref. No.	Part No.	Description	Per set (pcs.)	Remarks
64	XWA4B	Washer	1	
65	VF3B20S	Screw	1	
66	SJT202	Lug	1	
67	EPU05STAD	Pickup	1	
	EPC05STAD	Cartridge, Ceramic	1	
	EPS36STSD	Stylus	1	
68	AM9668	Micro Switch	1	
69	STR402	Terminal Strip, 4P	1	
70	SWK64	PU Plug Assembly	1	
71	ECQB6473MZ	0.047μF	1	
72	ERD12TJ100	10Ω	1	
73	SWP50	Receptacle Housing Assembly	1	
74	SGX890	Trim, Turntable Mat	1	
76	FUFAD011	45RPM Adaptor	1	
		CASSETTE TAPE DECK ASSEMBLY (SJD-54)		
2	SMQ1274	Push Button Frame Assembly (w/Button)	1	
3	SYE340	REC Button Assembly	1	
4	SYE342	Button Assembly	6	
5	SMQ922	Reel Holder Assembly	2	
9	SMQ1030	Head Panel	1	
10	SMQ1032	Collor A	1	
11	SMQ38	Pinch Roller Assembly	1	
12	SMQ578	Spring C, Pinch Roller Assembly	1	
13	SMQ42	Stud A	2	
14	SJH14	Erase Head	1	
15	SMQ228	Stud B, Record-Playback Head	1	
16	SMQ230	Stud C, Record-Playback Head	1	
17	SMQ232	Coil Spring A	1	
18	SJH2	Record-Playback Head	1	
19	SMQ52	Spring D, Head Panel Action Bracket	1	
20	SMQ1058	Stop Lever	1	
21	SMQ1060	Spring A, Stop Lever	1	
22	SMQ1038	Brake Arm	1	
23	SMQ166	Spring E, Brake Arm	1	
24	SMQ168	Pivot, Broke Arm	1	
25	SMQ234	REC Safety Lever B	1	
26		Not used		
27	SMQ1278	Eject Lever Assembly (Pop-up Lever Assembly)	1	
28	SMQ240	Spring, Eject Lever	1	
29	SMQ242	Switch Holding Spring Assembly	1	
30	SMQ1250	Counter Assembly	1	
31	SMQ1054	Bracket, Counter	1	
32	SMQ1056	Belt, Capstan	1	
33	SMQ124	Shaft A Assembly	1	
34	SMQ414	Spring Q	1	
35	SMQ482	Flywheel Assembly	1	
36	SMQ244	Bracket Assembly	1	
37	SMQ140	Belt, Capstan	1	
38	SMQ146	Washer, Oil Thrower	2	
39	SMQ58	Actuating Lever "FF"	1	
40	SMQ72	Spring K, Actuating Lever "FF"	1	
41	SMQ60	Shaft B, Braking Operating Plate	1	
42	SMQ62	Brake Operating Plate	1	
43	SMQ246	FF Idler Assembly	1	
44	SMQ74	Spring L	1	
45	SMQ248	FF Operating Plate	1	
46	SMQ104	Shaft C FF Operating Plate	1	
47	SMQ90	REW Arm Assembly	1	
48	SMQ92	Spring M, REW Arm Assembly	1	
49	SMQ86	Holding Plate, FF Idler Assembly	1	
50	SMQ1230	Take-up Arm Assembly	1	
58	SMQ122	Motor ON-OFF Switch	1	
59	SMQ152	REC Safety Lever A	1	
60	SMQ154	Spring P, REC Safety Lever A	1	
61	SMQ158	REC Safety Spoke	1	
62	MHT-5P3	DC Motor	1	
63	SMQ250	Bracket, DC Motor	1	
64	SMQ198	Pulley, DC Motor	1	
65	XXA2A-3	Screw A, DC Motor	1	
66	SMQ64	Nylon Washer 2φ	1	

Ref. No.	Part No.	Description	Per set (pcs.)	Remarks
67	XUCS12	Circlip 1.2m/m	1	
68	XUC15	Circlip 1.5m/m	1	
69	XUCS19	Circlip 1.9m/m	2	
70	XUCS23	Circlip 2.3m/m	1	
71	XWA26B	Spring Washer	3	
72	SMQ1064	Pin, Stop Lever	1	
73	XWE26E13	Spacer B	2	
74	XNG26B	Nut 2.6m/m	2	
75	XSN17+4S	Screw 1.7mm x 4	1	
76	XSN2+12S	Screw 2mm x 12	3	
77	XSN26+3S	Screw 2.6mm x 3	5	
78	XSN26+4S	Screw 2.6mm x 4	12	
79	XSN26+6S	Scre w 26mm x 6	6	
80	SMQ1050	Auto Stop Lever Assembly	1	
81		Not used		
82	SMQ258	Spring P, CH	1	
83	SMQ260	Coil Spring	1	
84		Not used		
85	XSN2+5S	Screw 2mm x 5	6	
86	XWA2B	Spring Washer 2φ	5	
87	XSN3+4S	Screw 3mm x 4	3	
88	XWE26B	Washer 2.6φ	6	
89	XWE2B	Washer 2φ	2	
90	XNG2B	Nut 2m/m	2	
91		Not used		
92	XNG26B	Nut 2.6m/m	2	
93	XNB26+12	Screw 2.6mm x 12	2	
94～100		Not used		
101	SMQ1248-1	Counter Plate	1	
102	SMQ1280	Chassis Bracket A	1	
103	SMQ1282	Chassis Bracket B	1	
104	SUW930	Cassette Bracket	1	
105	SMQ1284	Lock Lever	1	
106	SMQ1286	Kick Lever	1	
107	SMQ1288	Bracket, Pause	1	
108	SMQ1290	Pause Slide Lever	1	
109	SMQ1292	Pause Actuating Cam	1	
110	SMQ1294	Spring, Cam	1	
111	SMQ1296	Stud for PCB	3	
112	SMC6046	Shield Paper	1	
113	SMQ1298	R/P Switch	1	
114	SMQ1298	Lead Holder	2	
115	XNSS9BN	Nut	1	
116	XSN3+8S	Screw 3mm x 8	1	
117	SMQ1302	Spacer	2	
118	XWE26E10	Washer 2.6φ	1	
119	SMQ1304	Spring, Kick Lever	1	
120		Not used	1	
121	XTV3+8B	Self Tapping Screw	1	
122	SMQ106	Spring, Take-up Pulley	1	
123	XUC2	Circlip 2m/m	2	
124	SMQ1306	Spring A, Lock Lever	1	
125	SMQ1306	Spring B, Lock Lever	1	
126	SMQ1310	Stud	1	
127	SMQ1314	Spring Plate, Push Button Frame	1	
128	SMQ168	Brake Arm Pivot	1	
129	XNGS26AB	Nut	1	
130	SMQ1316	Collar, Auto Stop Lever	2	
131	SMQ1276	Collar B, Head Panel	2	

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MODIFICATIONS

Ref. No.	Description	Part No. Old → New	
68	Mirco Switch	AM9668	**AM9688**
69	Terminal Strip, 4P	STR402	**SJR402**
114	Lead Holder	SMQ1298	**SMQ1300**
R202	Resistor, Carbon	ERD14TJ391	**ERD14TJ331**
C302	Capacitor, Polyester	ECQM05153KZ	**ECQM05183KZ**
CA17	Specification Plate	SGN2101	**SGN2540**
R703, 704	Resistor, Carbon	ERD14TJ104	**ERD14TJ101**
S1	Power Switch	ESB1140DS	**ESB1140DD27**